

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 2, line 23 and continuing on page 3 with the following replacement paragraph:

-- As a result, to manufacture high quality products using a quality control system, a diagnosis system for supporting the rapid estimation of the causes of a quality fault and a control fault that the operator cannot quickly identify is necessary. --

Please replace the paragraph beginning at page 67, line 9, with the following replacement paragraph:

-- Step S611 is the step of calculating the correlation  $\epsilon_1 D_1$  between the thickness deviation and the actually measured temperature in the same manner as in Equation 11.

Please replace the paragraph beginning at page 67, line 12, with the following replacement paragraph:

-- Step S612 is the step of calculating the correlation  $\epsilon_2 D_2$  between the thickness deviation, calculated using a gauge meter equation in a stand where the spraying intervention of the operator has occurred, and the actually measured temperature in the same manner as in Equation 11. --

Please replace the paragraph beginning at page 67, line 17, with the following replacement paragraph:

-- Step S613 is the step of calculating the correlation  $\epsilon_3 D_3$  between the actually measured deviation and the thickness deviation calculated using a gauge meter equation in the manner as in Equation 11. --

Please delete the paragraph beginning at page 72, line 11, and ending at page 72, line 13.

Please add the following new paragraph on page 72, before line 14:

-- [Amount of exit side sheet thickness variation in I-th stand attributable to FSU setting error in I-th stand]

$$\Delta h_{fsu}^i \cong \frac{1000}{M^i} \cdot \Delta F_{fsu}^i \quad --$$

Please replace the paragraph beginning at page 77, line 9, and continuing on to page 78, with the following replacement paragraph:

-- The operator spraying intervention confidence rate determination module is constructed to include a thickness/temperature correlation calculation unit 719 for calculating the correlation  $\epsilon_1 D_1$  between the thickness deviation and the actually measured temperature if the thickness deviation is larger than the consumer control tolerance, a thickness/temperature correlation calculation unit 720 for calculating the correlation  $\epsilon_2 D_2$  between the thickness deviation, calculated using the gauge meter equation in the stand where the operator spraying intervention has occurred, and the actually measured temperature, a thickness deviation/calculated thickness correlation calculation unit 721 for calculating the correlation  $\epsilon_3 D_3$  between the actually measured thickness deviation and the thickness deviation calculated using the gauge meter equation, and a confidence rate calculation unit 718 for determining the confidence rate to be 0 if at least one of the three correlations has a (-) sign, and determining the final confidence rate of the operator spraying intervention to be the mean of the three correlations if all the three correlations have an a (+) sign. --